**Rencana Pembelajaran Semester (RPS) / Course Learning Plan**

**Lecturer AHT**

**Class IF4202, IF42INT**

**Semester 1 Term 2018/2019**

**CSH1F2 Pengantar Teknik Informatika / Introduction to Computer Science**

**Telkom University**

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| **Session** | **Targeted Skills** | **Learning Keywords** | **Learning Strategy** | **Learning Style** | **Weight to Total Score** |
| 1 | Students get the knowledge pointers and innovation related to Computer Science | Computer Science, Internet | Lecturer presentation, self-learning path:  https://git-scm.com/  https://www.youtube.com/watch?v=Y9XZQO1n\_7c  https://www.youtube.com/watch?v=SWYqp7iY\_Tc  https://www.github.com/ | Individual | 0 |
| 2 | Students get the path to learning algorithm and importance to having version control | Algorithm | Lecturer presentation, self-learning path, class project:  https://git-scm.com/  https://www.github.com/  https://scratch.mit.edu/  (trying Git distributed version control system) | Individual | 10% |
| 3 | Students get the path to learning algorithm and importance to having version control | Algorithm | Self-learning path, class project:  https://www.github.com/  https://coursera.org/  https://scratch.mit.edu/  (trying to approach algorithm by solving coding puzzle in http://scratch.mit.edu) | Individual | 10% |
| 4 | Students get the path to learning algorithm and data structure | Data Structure | Self-learning path, class project:  <https://www.datacamp.com/community/tutorials/data-structures-python> | Individual | 0% |
| 5 | Students get the path to learning algorithm and data structure | Data Structure | Lecturer presentation, self-learning path, class project | Individual | 10% |
| 6 | Students get the path to learning data representation | Data Manipulation, Data Representation | Lecturer presentation, self-learning path, class project | Individual | 10% |
| 7 | Students get the path to learning data representation | Data Manipulation, Data Representation | Self-learning path, class project | Individual | 0% |
| 8 | Students get the path to learning User Interface (UI) and User Experience (UX) | User Interface Design | Lecturer presentation, self-learning path, class project | Individual | 20% |
| 9 | Students get the path to learning User Interface (UI) and User Experience (UX) | User Interface Design | Self-learning path, class project | Individual | 0 |
| 10 | Students get the path to learning big data and data analytics (including Artificial Intelligence) | Big Data, Data Analytics | Lecturer presentation, self-learning path, class project | Individual | 20% |
| 11 | Students get the path to learning big data and data analytics (including Artificial Intelligence) | Big Data, Data Analytics | Self-learning path, class project | Individual | 0 |
| 12 | Students get the path to learning and experience Agile software development | Modern Software Development, Agile, Continuous Integration Continuous Delivery | Project presentation | Team | 0 |
| 13 | Students get the path to learning and experience Agile software development | Modern Software Development, Agile, Continuous Integration Continuous Delivery | Project presentation | Team | 10% |
| 14 | Students get the path to learning and experience Agile software development and cloud based infrastructure | Modern Software Development, Agile, Continuous Integration Continuous Delivery | Project presentation | Team | 10% |